

MATERIAL SAFETY DATA SHEET

TROY BIOSCIENCES, INC.

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EFFECTIVE DATE: September 13, 2006

REPLACES: March , 1997

24 HR. EMERGENCY PHONE NUMBER
CHEMTREC 1-800-424-9300

I. IDENTIFICATION

PRODUCT NAME	Naturalis-L		
CHEMICAL NAME	<i>Beauveria bassiana</i> ATCC 74040 Suspension	CHEMICAL FAMILY	<i>Beauveria bassiana</i> ATCC 74040
FORMULA	Proprietary	MOLECULAR WEIGHT	Not Available
SYNONYMS	None		
HAZARD CLASSIFICATION	Non-Hazardous		
DOMESTIC SHIPPING NAME	Non-Hazardous Additive/Compound	FOREIGN SHIPPING NAME	Non-Hazardous Additive/Compound
CAS #	Not Available	CAS NAME	Mixture

II. PHYSICAL DATA

BOILING POINT, 760 mm Hg 101.325 kPa	Unknown		
SPECIFIC GRAVITY (WATER = 1)	Density = 0.92	VAPOR PRESSURE AT 20 C	Not Available
VAPOR DENSITY (AIR = 1)	>1	SOLUBILITY IN WATER, % BY WT.	Not Available
% VOLATILES BY VOLUME	< 5%	EVAPORATION RATE (Butyl Acetate = 1)	<1
APPEARANCE AND ODOR	Dark amber liquid		

III. INGREDIENTS

MATERIAL	%	TLV (Units)	Hazard
<i>Beauveria bassiana</i> ATCC 74040	7.16	Not Established	Skin, eye, and resp.
CAS No. 63428-82-0			Irritant

IV. FIRE AND EXPLOSION HAZARD

FLASH POINT	340° F 171° C (ASTM D56-77 Closed Cup)		
FLAMMABLE LIMITS IN AIR	Not Available		
EXTINGUISHING MEDIA	Water, CO ₂ , Dry Chemical, Foam		
UNUSUAL FIRE AND EXPLOSION HAZARDS	None		

HMIS RATINGS	Health 1	Flammability 0	Reactivity 0	Personal Protection E
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See HMIS Summary on last page for clarification of these ratings.

V. HEALTH HAZARD DATA

TLV AND SOURCE	None established under OSHA Standard 1910.1200 or ACGIH
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ACUTE EFFECTS OF OVEREXPOSURE	
SWALLOWING	Nausea, gastric irritation
SKIN ABSORPTION	Not Available
INHALATION	Irritation
SKIN CONTACT	Mild Irritation
EYE CONTACT	Irritation
CHRONIC EFFECTS OF OVEREXPOSURE	Chronic exposure may lead to sensitization via the inhalation route.
OTHER HEALTH HAZARDS	None

EMERGENCY AND FIRST AID PROCEDURES	
SWALLOWING	Induce vomiting by drinking water. Consult a physician
SKIN	Wash with soap and water. If irritation persists, consult a physician.
INHALATION	Move to fresh air. If necessary, perform artificial respiration. Consult a physician.
EYES	Rinse eyes thoroughly with water for at least 15 minutes. Consult a physician immediately.

NOTES TO PHYSICIAN	None
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VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID
UNSTABLE	STABLE	Heat, strong acids, bases
	X	

INCOMPATIBILITY (materials to avoid)	Strong acids and bases
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS	Carbon dioxide, carbon monoxide

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
MAY OCCUR	WILL NOT OCCUR	Not applicable
	X	

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	<ol style="list-style-type: none"> 1. Remove persons not wearing protective clothing from spill area. 2. Contain and ventilate spill area. 3. Avoid contamination of streams and sewers. 4. Absorb onto clay or other absorbent material.
WASTE DISPOSAL METHOD	Dispose of in accordance with all Federal, State and Local Standards.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	NIOSH/MSHA approved for vapors and particulates		
VENTILATION	Mechanical		
PROTECTIVE GLOVES	Rubber, chemical resistant.	EYE PROTECTION	Goggles
OTHER PROTECTIVE EQUIPMENT	Impervious clothing to minimize contact, long-sleeved shirt and long pants. Shoes and socks must be worn.		

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then clean thoroughly and put on clean clothing. Store in a cool, dry place away from direct sunlight or heat.
OTHER PRECAUTIONS	Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not discharge into lakes, streams, ponds or public waterways.

The MSDS information is accurate to the best of our knowledge; however, Troy Biosciences Inc. does not assume any legal responsibility for reliance upon same.